

## M12 female 90° A-cod. with cable LED

PUR 4x0.34 bk UL/CSA+drag ch. 30m

Female 90° M12, 4-pole 3× LED (PNP)

Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request

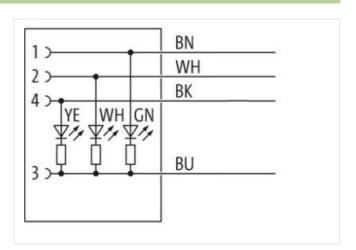
Plastic housings with good resistance against chemicals and oils.

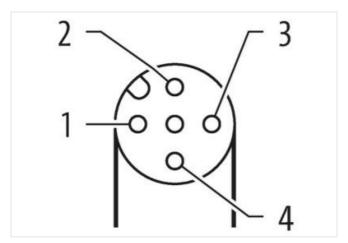
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

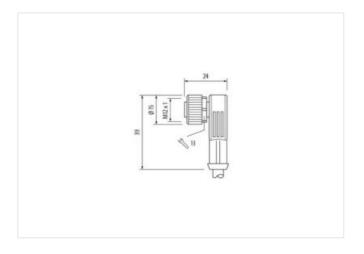
## **Link to Product**

## Illustration









Product may differ from Image











Cable length

30 m

Side 1

Tightening torque

0,6 Nm

The information in this Product-PDF has been compiled with the utmost care.

Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-04-23



stay connected

| Mounting method                           | inserted, screwed                     |
|---|---------------------------------------|
| Family construction form                  | M12                                   |
| Thread                                    | M12 x 1                               |
| suitable for corrugated tube (internal Ø) | 10 mm                                 |
| Coding                                    | A                                     |
| Material                                  | PUR                                   |
| Width across flats                        | SW13                                  |
| Degree of protection (EN IEC 60529)       | IP65, IP66K, IP67                     |
| Commercial data                           |                                       |
| ECLASS-6.0                                | 27279218                              |
| ECLASS-6.1                                | 27279218                              |
| ECLASS-7.0                                | 27279218                              |
| ECLASS-8.0                                | 27279218                              |
| ECLASS-9.0                                | 27060311                              |
| ECLASS-10.1                               | 27060311                              |
| ECLASS-11.1                               | 27060311                              |
| ECLASS-12.0                               | 27060311                              |
| ETIM-5.0                                  | EC001855                              |
| customs tariff number                     | 85444290                              |
| GTIN                                      | 4048879427029                         |
| Packaging unit                            | 1                                     |
| Electrical data   Supply                  |                                       |
| Operating voltage DC                      | 24 V                                  |
| Operating voltage DC min.                 | 18 V                                  |
| Operating voltage DC max.                 | 30 V                                  |
| Operating voltage DC max. (UL-listed)     | 30 V                                  |
| Current operating per contact max.        | 4 A                                   |
| Diagnostics                               |                                       |
| Status indication LED                     | green, white, yellow                  |
| Installation   Connection                 | green, write, years                   |
| ·   | 1404                                  |
| Mounting set                              | M12 x 1                               |
| Device protection   Electrical            |                                       |
| Additional condition protection degree    | inserted, screwed                     |
| Pollution Degree                          | 3                                     |
| Rated surge voltage                       | 0,8 kV                                |
| Material group (IEC 60664-1)              |                                       |
| Mechanical data   Material data           |                                       |
| Coating locking                           | Nickeled                              |
| Coating of fitting                        | nickel plated                         |
| Locking material                          | Zinc die-casting                      |
| Material screw connection                 | Zinc die-casting                      |
| Mechanical data   Mounting data           |                                       |
| Mounting method                           | inserted, screwed, Shaking protection |
| Environmental characteristics   Climatic  |                                       |
| Operating temperature min.                | -25 °C                                |
| Operating temperature max.                | 85 °C                                 |
| Additional condition temperature range    | depending on cable quality            |
| Conformity                                |                                       |
| Product standard                          | DIN EN 61076-2-101 (M12)              |
| Jaudi diamand                             | 2 2 3 3. 6 E 101 (MIL)                |



## stay connected

| Jacket Color Type of Certificate UPus Amount starading 1 Stranding 4 wires twisted No. of bending cycles (C-track) 10 Mio. @ 25 °C Cabbis weight Material jacket PUB Shore hardness jacket PUB Shore hardness jacket PUB Shore hardness jacket 90 °S Shore A Freedom from ingedients (jacket) 1.5 °K mm Tolerance outer diameter (jacket) 1.5 °K mm Outer diameter insulation 1.25 °K mm Outer diameter insulation 1.25 °K mm Outer diameter insulation 1.55 °K mm Outer diameter insulation 1.55 °K mm Outer diameter insulation 1.55 °K mm Outer diameter insulation 1.65 °K mm Outer diameter insulation 1.70 ·S Shore D Shore hardness were insulation 1.70 ·S Sh | Cable identification                                    | 634  |
|--|---|--|
| Type of Certificate         CURus           Amount stranding         1           Stranding         4 wires twisted           wire arrangement         brown, black, blue, white           No. of bonding cycles (C track)         10 Mo. @ 25° C           Cable weight         36.3 g/m           Material jacket         PUR           Shore hardness jacket         PUR           Shore hardness jacket         9.0 ± S Shore A           Freedom from ingredients (jacket)         4.5 mm           Outer-diameter (jacket)         4.5 mm           Tolerance outer diameter (sheath)         5.5 %           Material wire insulation         PP           Amount wires         4           Outer diameter insulation         1,25 mm           Outer diameter insulation         1,25 mm           Outer diameter insulation         1,25 mm           Outer diameter insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         1,25 mm           Outer diameter (sheath)         1,25 mm           Outer diameter (sheath)         1,2 mm           Ingredient freeness wire insulation         70 ± 5 Shore D           Ingredient freeness wire ins   | Cable Type  | 3  |
| Amount stranding 1 Stranding 4 wires twisted wire arrangement brown, black, blue, white No. of banding cycles (C-track) 10 Mio. @ 25 °C Gable weigh 36,3 g/m Material jacket PUR Shore hardness jacket 90 5 S Shore A Freedom from ingredients (jacket) laad free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 4,5 mm Tolerance outer diameter (facket) 4,5 mm Tolerance outer diameter (facket) 4,5 mm Tolerance outer diameter (jacket) 4,5 mm Tolerance outer diameter (jacket) 4,5 mm Tolerance outer diameter (jacket) 4,5 mm Tolerance outer diameter insulation PP Amount wires 4 Outer diameter foreance ore insulation 70 ± 5 Shore D Ingredient freeness wire insulation 70 ± 5 Shore D Ingredient fre | Jacket Color  | black  |
| Stranding         4 wires twisted           wire arrangement         brown, black, bue, white           No. of bending cycles (c-Track)         10 Me, 25 ° ° C           Cable weigth         36,3 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         least-free, cadmium-free, CFC-free, halogen-free, sillionne-free           Outer-diameter (jacket)         4,5 mm           Toflerance outer dameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         4           Outer diameter tolerance core insulation         1,25 mm           Outer diameter insulation         1,25 mm           Outer diameter insulation         1,25 mm           Ingredient freeness wire insulation         1,00 mm           Ingredient freeness wire insulation         1,25 mm           Ingredient freeness wire insulation         1,25 mm           Diameter of single wires         0,1 mm           Conductor reassection (wire)         42           Diameter of single wires         0,1 mm           Conductor type (wire)         Strand class 6           Traversing distance (C-track)         10 m@ 25 ° C [horizontal]           Current lo   | Type of Certificate                                     | cURus  |
| wire arrangement         brown, black, blue, white           No. of bending cycles (C-track)         10 Mio. @ 25 °C           Cable weigh         36,3 gm           Material jacket         PUR           Shore hardness glacket         90 ± 5 Shore A           Freedom from Ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         4.5 mm           Tolerance outer diameter (health)         2.5 %           Marcrial wire insulation         PP           Amount wires         4           Outer diameter insulation         1,25 mm           Outer diameter oberance core insulation         1,25 mm           Outer diameter oberances were insulation         1,25 mm  | Amount stranding  | 1  |
| No. of bending cycles (C-track)         10 Mio. @ 25 °C           Cable weight         36,3 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Ucter diameter (jacket)         4.5 mm           Tolerance outer diameter (shealth)         ± 5 %           Material wire insulation         PP           Outer diameter insulation         1,25 mm           Outer diameter insulation         1,25 mm           Outer diameter viberance core insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         10 ± 5 %           Mancer all strands (wire)         42           Diameter of single wires         0,1 mm           Conductor (cross-section (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Traversing distance (C-track)         10 m @ 25 °C   horizontal           Current load capacity (int. wire)         4,8 A           Electrical resistance on constant wire         57 Ω/km @ 20 °C           Nominal vollage power (A  | Stranding   | 4 wires twisted  |
| Cable weight         36,3 g/m           Material jacket         PUR           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         4,5 mm           Tolerance outer diameter (health)         ± 5 %           Material wire insulation         PP           Amount wires         4           Outer diameter insulation         1,25 mm           Outer diameter insulation         1,25 mm           Outer diameter insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         42 €           Diameter of single wires         0,1 mm           Conductor crossection (wire)         42           Diameter of single wires         0,1 mm           Conductor vive         Stranded copper wire, bare           Conductor vive         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Traversing distance (C-track)         10 m@ 25 °C (I horizontal           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         to DIN VDE 0298-4           Woman In voltage power (wire - wire)         2,5 kV @ 60 s <td>wire arrangement</td> <td>brown, black, blue, white</td>   | wire arrangement  | brown, black, blue, white                                      |
| Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         4.5 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         4           Outer diameter insulation         1,25 mm           Outer diameter insulation         1,25 mm           Outer diameter obterance core insulation         1,25 mm           Outer diameter insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         12 Mm           Amount strands (wire)         42           Diameter of single wires         0,1 mm           Conductor crosssection (wire)         3,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor (pree) (wire)         strand class 6           Traversing distance (Ctrack)         10 m@ 25 °C) hortzontal           Current load capacity min. wire         4,8 A           Electrical resistance line constant wire         57 Dkm @ 20 °C           Nominal voltage power (wire vieta)         2,5 kV  | No. of bending cycles (C-track)                         | 10 Mio. @ 25 °C  |
| Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         4,5 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         4           Outer diameter insulation         1,25 mm           Outer diameter loterance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         42           Diameter of single wires         0,1 mm           Conductor (wire)         42           Diameter of single wires         0,1 mm           Onductor trossessection (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor (ye (wire)         strand class 6           Traversing distance (C-track)         10 m @ 25 °C   horizontal           Current load capacity (standard)         to DIN VDE (2594.4           Current load capacity (standard)         to DIN VDE (2594.4           Current load capacity wire, wire         57 Qkm @ 20 °C           Nominal voltage power (wir   | Cable weigth  | 36,3 g/m   |
| Freedom from ingredients (jacket)         lead-free, cardmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         4,5 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Anount wires         4           Outer diameter rollariance or insulation         1,25 mm           Outer diameter tolerance core insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         42           Diameter of single wires         0,1 mm           Conductor (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Traversing distance (C-track)         10 m @ 25 °C (horizontal           Current load capacity (standard)         10 DIN VDE 0298-4           Current load capacity (standard)         10 DIN VDE 0298-4           Current load capacity (sin, wire         4,8 A           Rectifical resistance line constant wire         57 Ω/km @ 20 °C           Nominal voltage power AC max.         300 V           Power frequency withstand voltage p   | Material jacket   | PUR  |
| Outer-diameter (jacket)         4,5 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         4           Outer diameter insulation         ± 5 mm           Outer diameter insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         42           Diameter of single wires         0,1 mm           Conductor crosssection (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Traversing distance (C-track)         10 m@ 25 °C ( horizontal           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,8 A           Electrical resistance line constant wire         57 Okm @ 20 °C           Nominal voltage power AC max.         300 V           Power frequency withstand voltage power (wire - wire)         2,5 kV @ 60 s           Min. operating temperature (static)         -40 °C           Min. operating temperature (static)         90 °C / 90 °C @ 10000 h Operation <t< td=""><td>Shore hardness jacket</td><td>90 ± 5 Shore A</td></t<>  | Shore hardness jacket                                   | 90 ± 5 Shore A   |
| Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         4           Outer diameter insulation         1,25 mm           Outer diameter tolerance core insulation         25 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         42           Diameter of single wires         0,1 mm           Conductor crosssection (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Traversing distance (C-track)         10 m@ 25 °C   horizontal           Current load capacity (standard)         to DIN VDE 2038-4           Current load capacity (standard)         to DIN VDE 2038-4           Electrical resistance line constant wire         57 Okm @ 20 °C           Nominal voltage power &C max.         300 V           Power frequency withstand voltage power (wire - wire)         2,5 kV @ 60 s           Max. operating temperature (static)         40 °C           Max. operating temperature (mix.) (dynamic)         -25 °C           Operating temperature mix. (dynamic)         -80 °C  | Freedom from ingredients (jacket)                       | lead-free, cadmium-free, CFC-free, halogen-free, silicone-free |
| Material wire insulation         PP           Amount wires         4           Outer dameter insulation         1.25 mm           Outer dameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Armount strands (wire)         42           Diameter of single wires         0,1 mm           Conductor crosssection (wire)         0.34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Traversing distance (C-track)         10 m @ 25 °C   horizontal           Current load capacity (standard)         to DIN VDE 028-4           Current load capacity min. wire         4,8 A           Electrical resistance line constant wire         57 Ωkm @ 20 °C           Nominal voltage power AG max.         300 V           Power frequency withstand voltage power (wire - wire)         2,5 kV @ 60 s           Min. operating temperature (lixed)         80 °C / 90 °C @ 10000 h Operation           Operating temperature min. (dynamic)         -25 °C           Operating temperature min. (dynamic)         -25 °C           UV resistance         DIN EN ISO 4892-2   | Outer-diameter (jacket)                                 | 4,5 mm   |
| Amount wires         4           Outer diameter insulation         1,25 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         42           Diameter of single wires         0,1 mm           Conductor rosssection (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Traversing distance (C-track)         10 m @ 25 °C   horizontal           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,8 A           Electrical resistance line constant wire         57 Økm @ 20 °C           Nominal voltage power AC max.         300 V           Power frequency withstand voltage power (wire - wire)         2,5 kV @ 60 s           Min. operating temperature (fitsed)         80 °C / 90 °C @ 10000 h Operation           Operating temperature min. (dynamic)         25 °C           Operating temperature min. (dynamic)         25 °C           Ut resistance         DIN EN ISO 4892-2 L Ut 1581 § 1100 FT2           chemical resistance  | Tolerance outer diameter (sheath)                       | ± 5 %  |
| Outer diameter insulation         1,25 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         42           Diameter of single wires         0,1 mm           Conductor vive         Stranded copper wire, bare           Conductor wire         Stranded copper wire, bare           Conductor ty (wire)         strand class 6           Traversing distance (C-track)         10 m @ 25 °C   horizontal           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity with stand voltage power AD max.         300 V           Power frequency withstand voltage power (wire - wire)         2,5 kV @ 60 s           AO withstand voltage power (wire - wire)         2,5 kV @ 60 s           Min. operating temperature (static)         -40 °C           Max. operating temperature (static)         80 °C / 90 °C@ 10000 h Operation           UV resistance         DIN EN ISO 4892-2 A           Flame resistance         U. 1581 § 1090   IEC 60332-2-2   UL 1581   | Material wire insulation                                | PP   |
| Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         42           Diameter of single wires         0,1 mm           Conductor crosssection (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Traversing distance (C-track)         10 m @ 25 °C   horizontal           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (wire wire)         4,8 A           Electrical resistance line constant wire         57 Ω/km @ 20 °C           Nominal voltage power AC max.         300 V           Power frequency withstand voltage power (wire - wire)         2,5 kV @ 60 s           Min. operating temperature (static)         -40 °C           Max. operating temperature (fixed)         80 °C / 90 °C@ 10000 h Operation           Operating temperature min. (dynamic)         -25 °C           Operating temperature max. (dynamic)         80 °C / 90 °C@ 10000 h Operation           UV resistance         DIN EN ISO 4892-2 A  | Amount wires  | 4  |
| Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         42           Diameter of single wires         0,1 mm           Conductor crosssection (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Traversing distance (C-track)         10 m @ 25 °C   horizontal           Current load capacity strandard)         to DIN VDE 0298-4           Current load capacity min. wire         4,8 A           Electrical resistance line constant wire         57 Ω/km @ 20 °C           Nominal voltage power AC max.         300 V           Power frequency withstand voltage power (wire - wire)         2,5 kV @ 60 s           Min. operating temperature (static)         40 °C           Max. operating temperature (fixed)         80 °C / 90 °C @ 10000 h Operation           Operating temperature max. (dynamic)         25 °C           Operating temperature max. (dynamic)         25 °C           UV resistance         DIN EN ISO 4892-2 A           Flame resistance         UL 1581 § 1090 [EG 60332-2-2   UL 1581 § 1100 FT2           chemical resistance         Good, application-related testing     <   | Outer diameter insulation                               | 1,25 mm  |
| Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C   horizontal  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4.8 A Electrical resistance line constant wire 57 Ω/km @ 20 °C Nominal voltage power AC max. 300 V Power frequency withstand voltage power (wire - wire) 2.5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation  Operating temperature max. (dynamic) 2-25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation  UV resistance DIN EN ISO 4892-2 A Flame resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Good, application-related testing   DIN EN 60811-404 Bending radius (fixed) 5 × Outer diameter Bending radius (fixed) 10 × Outer diameter Bending radius (dynamic) 10 × Outer diameter No. of torsion cycles 2 Mio. Torsion speed 35 cycles/min  | Outer diameter tolerance core insulation                | ± 5 %  |
| Amount strands (wire)         42           Diameter of single wires         0,1 mm           Conductor crosssection (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Traversing distance (C-track)         10 m @ 25 °C   horizontal           Current load capacity (standard)         to DIN VDE 0298 ·4           Current load capacity min. wire         4,8 A           Electrical resistance line constant wire         57 Ω/km @ 20 °C           Nominal voltage power AC max.         300 V           Power frequency withstand voltage power (wire - wire)         2,5 kV @ 60 s           AC withstand voltage power (wire - wire)         2,5 kV @ 60 s           Max. operating temperature (fixed)         80 °C / 90 °C @ 10000 h Operation           Operating temperature (fixed)         80 °C / 90 °C @ 10000 h Operation           UV resistance         DIN EN ISO 4892-2 A           Flame resistance         UL 1581 § 1909   IEC 60332-2-2   UL 1581 § 1100 FT2           chemical resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing   DIN EN 60811-404           Bending radius (fixed)         5 × Outer diameter           Bending radius (dynamic)         10 × Outer diameter <td>Shore hardness wire insulation</td> <td>70 ± 5 Shore D</td>  | Shore hardness wire insulation                          | 70 ± 5 Shore D   |
| Diameter of single wires 0,1 mm  Conductor crosssection (wire) 0,34 mm²  Material conductor wire Stranded copper wire, bare  Conductor type (wire) strand class 6  Traversing distance (C-track) 10 m @ 25 °C   horizontal  Current load capacity (standard) to DIN VDe 298-4  Current load capacity min. wire 4,8 A  Electrical resistance line constant wire 57 \( \Omega \) w@ 20 °C  Nominal voltage power AC max. 300 V  Power frequency withstand voltage power (wire - wire) 2,5 kV @ 60 s  Min. operating temperature (static) 40 °C  Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation  Operating temperature min. (dynamic) 25 °C  Operating temperature max. (dynamic) 25 °C  Flame resistance DIN EN ISO 4892-2 A  Flame resistance UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2  chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Gasoline resistance Good, application-related testing IDIN EN 60811-404  Bending radius (fixed) 5 × Outer diameter  Bending radius (fixed) 10 × Outer diameter  No. of forsion cycles 2 Min.  Torsion speed 35 cycles/min  | Ingredient freeness wire insulation                     | lead-free, cadmium-free, CFC-free, halogen-free, silicone-free |
| Conductor crossection (wire)  Material conductor wire  Stranded copper wire, bare  Conductor type (wire)  strand class 6  Traversing distance (C-track)  10 m @ 25 °C   horizontal  Current load capacity (standard)  to DIN VDE 0298-4  Current load capacity (standard)  Current load capacity min. wire  4,8 A  Electrical resistance line constant wire  57 \( \text{C}\text{Im}\) @ 20 °C  Nominal voltage power AC max.  300 V  Power frequency withstand voltage power (wire - wire)  2,5 kV @ 60 s  Min. operating temperature (static)  40 °C  Max. operating temperature (fixed)  80 °C / 90 °C @ 10000 h Operation  Operating temperature min. (dynamic)  25 °C  Operating temperature max. (dynamic)  80 °C / 90 °C @ 10000 h Operation  UV resistance  DIN EN ISO 4892-2 A  Flame resistance  UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2  chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing  Bending radius (fixed)  5 × Outer diameter  No. of forsion cycles  3 5 cycles/min  | Amount strands (wire)                                   | 42   |
| Material conductor wire Stranded copper wire, bare  Conductor type (wire) strand class 6  Traversing distance (C-track) 10 m @ 25 °C   horizontal  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,8 A  Electrical resistance line constant wire 57 \( \Omega \)/km \( \omega \) 20 °C  Nominal voltage power AC max. 300 V  Power frequency withstand voltage power (wire - wire) 2,5 kV \( \omega \) 60 s  AC withstand voltage power (wire - wire) 2,5 kV \( \omega \) 60 s  Min. operating temperature (static) 40 °C  Max. operating temperature (static) 40 °C \( \omega \) 00 °C \( \omega \) 00 °C \( \omega \) 0000 h Operation  Operating temperature min. (dynamic) 25 °C  Operating temperature max. (dynamic) 80 °C / 90 °C \( \omega \) 10000 h Operation  UV resistance DIN EN ISO 4892-2 A  Flame resistance UL 1581 \( \green \) 1000   IEC 60332-2-2   UL 1581 \( \green \) 1100 FT2  chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Oil resistance Good, application-related testing IDIN EN 60811-404  Bending radius (fixed) 5 x Outer diameter  No. of torsion cycles 2 Mio.  Torsion speed 35 cycles/min   | Diameter of single wires                                | 0,1 mm   |
| Conductor type (wire) strand class 6  Traversing distance (C-track) 10 m @ 25 °C   horizontal  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,8 A  Electrical resistance line constant wire 57 Ω/km @ 20 °C  Nominal voltage power AC max. 300 V  Power frequency withstand voltage power (wire - wire) 2,5 kV @ 60 s  AC withstand voltage power (wire - wire) 2,5 kV @ 60 s  Min. operating temperature (static) -40 °C  Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation  Operating temperature min. (dynamic) -25 °C  Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation  UV resistance DIN EN ISO 4892-2 A  Flame resistance UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2  chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Oil resistance Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of torsion cycles 2 Mio.  Torsion speed 35 cycles/min   | Conductor crosssection (wire)                           | 0,34 mm <sup>2</sup>   |
| Traversing distance (C-track) 10 m @ 25 °C   horizontal  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,8 A  Electrical resistance line constant wire 57 Ω/km @ 20 °C  Nominal voltage power AC max. 300 V  Power frequency withstand voltage power (wire - wire) 2,5 kV @ 60 s  AC withstand voltage power (wire - wire) 2,5 kV @ 60 s  Min. operating temperature (static) -40 °C  Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation  Operating temperature min. (dynamic) -25 °C  Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation  UV resistance DIN EN ISO 4892-2 A  Flame resistance UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2  chemical resistance Good, application-related testing  Oil resistance Good, application-related testing  Oil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of torsion cycles 2 Mio.  Torsion speed   | Material conductor wire                                 | Stranded copper wire, bare                                     |
| Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,8 A           Electrical resistance line constant wire         57 Ω/km @ 20 °C           Nominal voltage power AC max.         300 V           Power frequency withstand voltage power (wire - wire) ajacket)         2,5 kV @ 60 s           AC withstand voltage power (wire - wire)         2,5 kV @ 60 s           Min. operating temperature (static)         -40 °C           Max. operating temperature (fixed)         80 °C / 90 °C @ 10000 h Operation           Operating temperature max. (dynamic)         -25 °C           Operating temperature max. (dynamic)         -25 °C           Operating temperature max. (dynamic)         -25 °C           UV resistance         DIN EN ISO 4892-2 A           Flame resistance         UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2           chemical resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Oil resistance         Good, application-related testing   DIN EN 60811-404           Bending radius (fixed)         5 x Outer diameter           Bending radius (dynamic)         10 x Outer diameter           No. of torsion cycles         2 Mio.   | Conductor type (wire)                                   | strand class 6   |
| Current load capacity min. wire       4,8 A         Electrical resistance line constant wire       57 Ω/km @ 20 °C         Nominal voltage power AC max.       300 V         Power frequency withstand voltage power (wire - wire)       2,5 kV @ 60 s         AC withstand voltage power (wire - wire)       2,5 kV @ 60 s         Min. operating temperature (static)       -40 °C         Max. operating temperature (fixed)       80 °C / 90 °C @ 10000 h Operation         Operating temperature min. (dynamic)       -25 °C         Operating temperature max. (dynamic)       80 °C / 90 °C @ 10000 h Operation         UV resistance       DIN EN ISO 4892-2 A         Flame resistance       UL 1581 § 1990   IEC 60332-2-2   UL 1581 § 1100 FT2         chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing         Oil resistance       Good, application-related testing   DIN EN 60811-404         Bending radius (fixed)       5 x Outer diameter         Bending radius (dynamic)       10 x Outer diameter         No. of torsion cycles       2 Mio.         Torsion speed       35 cycles/min  | Traversing distance (C-track)                           | 10 m @ 25 °C   horizontal                                      |
| Electrical resistance line constant wire 57 \(  \textit{ \         | Current load capacity (standard)                        | to DIN VDE 0298-4  |
| Nominal voltage power AC max.  300 V  Power frequency withstand voltage power (wire - jacket)  AC withstand voltage power (wire - wire)  2,5 kV @ 60 s  Min. operating temperature (static)  Max. operating temperature (fixed)  Moreof acting temperature (fixed)  Moreof acting temperature min. (dynamic)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  Moreof acting temperature max. (dynamic)  Nor esistance  DIN EN ISO 4892-2 A  Flame resistance  UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2  chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing  Oil resistance  Good, application-related testing  Oil resistance  Good, application-related testing   DIN EN 60811-404  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter  No. of torsion speed  35 cycles/min   | Current load capacity min. wire                         | 4,8 A  |
| Power frequency withstand voltage power (wire - jacket)  AC withstand voltage power (wire - wire)  2.5 kV @ 60 s  Min. operating temperature (static)  40 °C  Max. operating temperature (fixed)  80 °C / 90 °C @ 10000 h Operation  Operating temperature min. (dynamic)  25 °C  Operating temperature max. (dynamic)  80 °C / 90 °C @ 10000 h Operation  UV resistance  DIN EN ISO 4892-2 A  Flame resistance  UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2  chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing  Oil resistance  Good, application-related testing   DIN EN 60811-404  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter  No. of torsion cycles  35 cycles/min  | Electrical resistance line constant wire                | 57 Ω/km @ 20 °C  |
| (wire - jacket)2.5 kV @ 60 sAC withstand voltage power (wire - wire)2,5 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testing   DIN EN 60811-404Bending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of torsion cycles2 Mio.Torsion speed35 cycles/min  | Nominal voltage power AC max.                           | 300 V  |
| Min. operating temperature (static)  Max. operating temperature (fixed)  80 °C / 90 °C @ 10000 h Operation  Operating temperature min. (dynamic)  -25 °C  Operating temperature max. (dynamic)  80 °C / 90 °C @ 10000 h Operation  UV resistance  DIN EN ISO 4892-2 A  Flame resistance  UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2  chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing  Oil resistance  Good, application-related testing   DIN EN 60811-404  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter  No. of torsion cycles  2 Mio.  Torsion speed  | Power frequency withstand voltage power (wire - jacket) | 2,5 kV @ 60 s  |
| Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation  Operating temperature min. (dynamic) -25 °C  Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation  UV resistance DIN EN ISO 4892-2 A  Flame resistance UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2  chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Oil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of torsion cycles 2 Mio.  Torsion speed 35 cycles/min  | AC withstand voltage power (wire - wire)                | 2,5 kV @ 60 s  |
| Operating temperature min. (dynamic) Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation  UV resistance DIN EN ISO 4892-2 A  Flame resistance UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2  chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Oil resistance Good, application-related testing  Oil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of torsion cycles 2 Mio.  Torsion speed 35 cycles/min  | Min. operating temperature (static)                     | -40 °C   |
| Operating temperature min. (dynamic) Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation  UV resistance DIN EN ISO 4892-2 A  Flame resistance UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2  chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Oil resistance Good, application-related testing  Oil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of torsion cycles 2 Mio.  Torsion speed 35 cycles/min  | Max. operating temperature (fixed)                      | 80 °C / 90 °C @ 10000 h Operation                              |
| Operating temperature max. (dynamic)       80 °C / 90 °C @ 10000 h Operation         UV resistance       DIN EN ISO 4892-2 A         Flame resistance       UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2         chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing         Oil resistance       Good, application-related testing   DIN EN 60811-404         Bending radius (fixed)       5 x Outer diameter         Bending radius (dynamic)       10 x Outer diameter         No. of torsion cycles       2 Mio.         Torsion speed       35 cycles/min  |   |  |
| Flame resistance  Chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing  Oil resistance  Good, application-related testing  Oil resistance  Good, application-related testing   DIN EN 60811-404  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter  No. of torsion cycles  2 Mio.  Torsion speed  35 cycles/min  | Operating temperature max. (dynamic)                    | 80 °C / 90 °C @ 10000 h Operation                              |
| chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of torsion cycles 2 Mio.  Torsion speed 35 cycles/min  | UV resistance   | DIN EN ISO 4892-2 A  |
| Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of torsion cycles 2 Mio.  Torsion speed 35 cycles/min  | Flame resistance  | UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2            |
| Oil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of torsion cycles 2 Mio.  Torsion speed 35 cycles/min  | chemical resistance                                     | Good, application-related testing                              |
| Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of torsion cycles 2 Mio.  Torsion speed 35 cycles/min   | Gasoline resistance                                     | Good, application-related testing                              |
| Bending radius (dynamic) 10 x Outer diameter  No. of torsion cycles 2 Mio.  Torsion speed 35 cycles/min  | Oil resistance  | Good, application-related testing   DIN EN 60811-404           |
| No. of torsion cycles 2 Mio.  Torsion speed 35 cycles/min  | Bending radius (fixed)                                  | 5 x Outer diameter   |
| Torsion speed 35 cycles/min  | Bending radius (dynamic)                                | 10 x Outer diameter  |
|  | No. of torsion cycles                                   | 2 Mio.   |
|  | Torsion speed   | 35 cycles/min  |
|  | Torsion stress  | ·  |